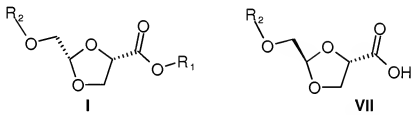


This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of claims:**

1. (Currently Amended): A process for producing a compound of formula I and a compound of formula VII:



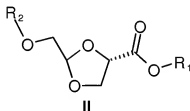
wherein

R<sub>1</sub> is C<sub>1-12</sub> alkyl, C<sub>2-12</sub> alkenyl, C<sub>2-12</sub> alkynyl, C<sub>6-12</sub> aryl, C<sub>3-10</sub> heterocycle, C<sub>6-12</sub> aralkyl or C<sub>3-10</sub> heteroaralkyl, and

R<sub>2</sub> is CO-C<sub>1-6</sub> alkyl, CO-C<sub>6-12</sub> aryl, CO-C<sub>1-6</sub> alkoxy, CO-C<sub>6-12</sub> aryloxy, or CO-C<sub>6-12</sub> arylalkyl;

said process comprising:

a) subjecting a compound of formula II:



to an enzymatic diastereomeric resolution in the presence of a suitable amount of Pig Liver Esterase enzyme or Porcine Pancreatic Lipase enzyme;

b) recovering said a compound of formula I and a compound of formula VII.

2. (Original): The process according to claim 1, wherein  $R_1$  is  $C_{1-12}$  alkyl.

3. (Previously Presented): The process according to claim 1 wherein  $R_2$  is  $CO-C_{1-6}$  alkyl.

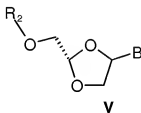
4. (Previously Presented): The process according to claim 1, wherein  $R_2$  is  $CO-C_{6-12}$  aryl.

5. (Previously Presented): The process according to claim 1, wherein the enzyme is Pig Liver Esterase.

6. (Previously Presented): The process according to claim 1, wherein the enzyme is Porcine Pancreatic Lipase.

7. (Previously Presented): The process according to claim 1, further comprising:

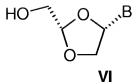
a) replacing the functional group at position C4 of the compound of formula I to produce a compound of formula V:



wherein B is purine or pyrimidine base or an analogue thereof;

b) removing the group  $R_2$  of said compound of formula V; and

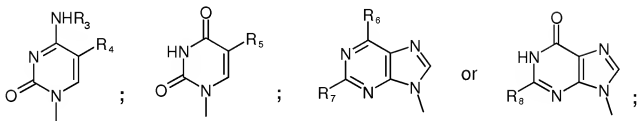
c) recovering a compound of formula VI:



or a pharmaceutically acceptable salt thereof.

8. (Previously Presented): The process according to claim 7, wherein

B is:



R<sub>3</sub> is H, C<sub>1-6</sub> alkyl, C<sub>1-6</sub> acyl, or CO-R<sub>9</sub>;

R<sub>9</sub> is H or C<sub>1-6</sub> alkyl;

R<sub>4</sub> and R<sub>5</sub> are each independently H, C<sub>1-6</sub> alkyl, bromide, chloride, fluoride, iodide or CF<sub>3</sub>; and

R<sub>6</sub>, R<sub>7</sub> and R<sub>8</sub> are each independently H, bromide, chloride, fluoride, iodide, amino, hydroxyl, or C<sub>3-6</sub> cycloalkylamino.

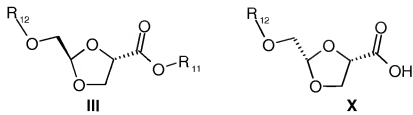
9. (Cancelled):

10. (Original): A process according to claim 1, wherein R<sub>1</sub> is C<sub>1-12</sub> alkyl and R<sub>2</sub> is CO-C<sub>6-12</sub> aryl.

11. (Original): A process according to claim 1, wherein R<sub>1</sub> is methyl and R<sub>2</sub> is benzoyl.

12. (Currently Amended): A process for producing a compound of formula III and a

compound of formula X:



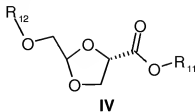
wherein

R<sub>11</sub> is C<sub>1-12</sub> alkyl, C<sub>2-12</sub> alkenyl, C<sub>2-12</sub> alkynyl, C<sub>6-12</sub> aryl, C<sub>3-10</sub> heterocycle, C<sub>6-12</sub> aralkyl or C<sub>3-10</sub> heteroaralkyl; and

R<sub>12</sub> is CO-C<sub>1-6</sub> alkyl, CO-C<sub>6-12</sub> aryl, CO-C<sub>1-6</sub> alkoxy, CO-C<sub>6-12</sub> aryloxy, or CO-C<sub>6-12</sub> arylalkyl,

said process comprising:

a) subjecting a compound of formula IV:



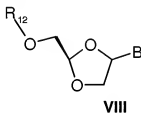
to an enzymatic diastereomeric resolution in the presence of a suitable amount of an enzyme, wherein said enzyme is Candida Antarctica "A" lipase, Candida Antarctica "B" lipase, Candida Lypolitica Lipase, or Rhizomucor Miehei Lipase; and

b) recovering a said compound of formula III and a compound of formula X.

13. (Original): The process according to claim 12, wherein R<sub>11</sub> is C<sub>1-12</sub> alkyl.

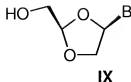
14. (Previously Presented): The process according to claim 12, wherein R<sub>12</sub> is CO-C<sub>1-6</sub> alkyl.

15. (Original): The process according to claim 12, wherein  $R_{12}$  is  $\text{CO-C}_{6-12}$  aryl.
16. (Original): The process according to claim 12, wherein the enzyme is Candida Antarctica "A" lipase.
17. (Original): The process according to claim 12, wherein the enzyme is Candida Antarctica "B" lipase.
18. (Original): The process according to claim 12, wherein the enzyme is Candida Lypholitica Lipase.
19. (Original): The process according to claim 12, wherein the enzyme is Rhizomucor Miehei Lipase.
20. (Previously Presented): The process according to claim 12, further comprising:  
a) replacing the functional group at position C4 of the compound of formula III to produce a compound of formula VIII:



wherein B is purine or pyrimidine base or an analogue thereof;

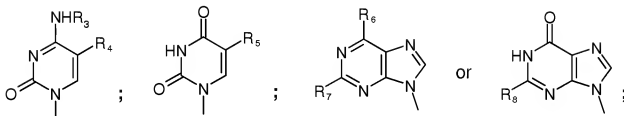
- b) removing group  $R_{12}$  of said compound of formula VIII;
- c) recovering a compound of formula IX:



or a pharmaceutically acceptable salt thereof.

21. (Previously Presented): The process according to claim 20, wherein

B is



R<sub>3</sub> is H, C<sub>1-6</sub> alkyl, C<sub>1-6</sub> acyl and CO-R<sub>9</sub>;

R<sub>9</sub> is H or C<sub>1-6</sub> alkyl;

R<sub>4</sub> and R<sub>5</sub> are each independently H, C<sub>1-6</sub> alkyl, bromide, chloride, fluoride, iodide or CF<sub>3</sub>; and

R<sub>6</sub>, R<sub>7</sub> and R<sub>8</sub> are each independently H, bromide, chloride, fluoride, iodide, amino, hydroxyl or C<sub>3-6</sub> cycloalkylamino.

22. (Cancelled):

23. (Original): A process according to claim 12, wherein R<sub>11</sub> is C<sub>1-12</sub> alkyl and R<sub>12</sub> is CO-C<sub>6-12</sub> aryl.

24. (Original): A process according to claim 12, wherein R<sub>11</sub> is methyl and R<sub>12</sub> is benzoyl.

25. (Previously Presented): A process according to claim 1, wherein said process is carried out at a pH of 6 to 8, at a temperature in the range of 5 to 50°C, and in the presence of a

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solvent, and the concentration of enzyme with respect to the solvent is 1 mg/ml to 100 mg/ml.

26. (Previously Presented): A process according to claim 1, wherein said process is carried out at a pH of 6 to 8, at a temperature in the range of 5 to 50°C, and in the presence of a solvent, and the concentration of enzyme with respect to the solvent is 1 mg/ml to 100 mg/ml.

27. (Previously Presented): A process according to claim 1, wherein the weight ratio of the amount of enzyme to the amount of the compound of formula II is 1% to 25%.

28. (Previously Presented): A process according to claim 1, wherein the weight ratio of the amount of enzyme to the amount of the compound of formula II is 5% to 10%.

29. (Previously Presented): A process according to claim 12, wherein the weight ratio of the amount of enzyme to the amount of the compound of formula IV is 1% to 25%.

30. (Previously Presented): A process according to claim 12, wherein the weight ratio of the amount of enzyme to the amount of the compound of formula IV is 5% to 10%.